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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/789,044	02/27/2004	Kie Y. Ahn	1303.070US2	8340		
21186	7590 03/21/2005		EXAM	EXAMINER		
	MAN, LUNDBERG, V	MENZ, DOUGLAS M				
P.O. BOX 25 MINNEAPO	938 DLIS, MN 55402		ART UNIT	PAPER NUMBER		
			2829			
		•	DATE MAILED: 03/21/2005	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)	Cook			
		10/789,044	AHN ET AL.	Clar			
	Office Action Summary	Examiner	Art Unit				
		Douglas M. Menz	2829				
Period fo	The MAILING DATE of this communication Reply	n appears on the cover sheet wit	th the correspondence addre	ISS			
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati e period for reply specified above is less than thirty (30) days of period for reply is specified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a re on. , a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON' statute, cause the application to become AB.	oply be timely filed (30) days will be considered timely. THS from the mailing date of this comm ANDONED (35 U.S.C. § 133).	unication.			
Status							
1)	Responsive to communication(s) filed on	,					
<i>′</i> —	•	This action is non-final.		•			
3)□	,—						
Disposit	ion of Claims						
5) 6) 7)	Claim(s) <u>1-40</u> is/are pending in the application 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-40</u> are subject to restriction and	thdrawn from consideration.					
Applicat	ion Papers						
10)	The specification is objected to by the Example The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the of the oath or declaration is objected to by the specific transfer of transf	accepted or b) objected to I to the drawing(s) be held in abeyan correction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR				
Priority i	under 35 U.S.C. § 119		·				
12) <u>□</u> a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Bee the attached detailed Office action for	ments have been received. ments have been received in A e priority documents have been sureau (PCT Rule 17.2(a)).	pplication No received in this National Sta	эде			
Attachmen	, ,	_					
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/S er No(s)/Mail Date	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-15 	52)			

Art Unit: 2829

DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention:

Species I, claims 1-4, directed to an electronic device with a dielectric layer containing a TiOx layer doped with a lanthanide.

Species II, claims 5-8, directed to an electronic device with a dielectric layer containing a TiOx layer doped with Nd.

Species III, claims 9-12, directed to an electronic device with a dielectric layer containing a TiOx layer doped with Tb.

Species IV, claims 13-16, directed to an electronic device with a dielectric layer containing a TiOx layer doped with Dy.

Species V, claims 17-24, directed to transistor with a dielectric layer containing a TiOx layer doped with a lanthanide.

Species VI, claims 25-28, directed to a capacitor with a dielectric layer containing a TiOx layer doped with a lanthanide.

Species VII, claims 29-34, directed to a memory structure with a dielectric layer containing a TiOx layer doped with a lanthanide.

Species VIII, claims 35-40, directed to an electronic system with a dielectric layer containing a TiOx layer doped with a lanthanide.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was made to David Cochran on 3/14/05 to request an oral election to the above restriction requirement, but did not result in an election being made.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas M. Menz whose telephone number is 571-272-1877. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DM

DAVID ZARNEKE PRIMARY EXAMINED

3/17/05

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